Forest Ecology and Management, 31 (1990)
Elsevier Science Publishers B.V., Amsterdam — Printed in The Netherlands

Author Index

Abrams, M.D. and Kubiske, M.E.
Leaf structural characteristics of 31 hardwood and conifer tree species in central Wisconsin: influence of light regime and shade-tolerance rank 245
Alfaro, R.I., *see* Thomson, A.J. and Alfaro, R.I.
Baker, G.A., *see* Harmon, M.E. et al.
Baker, T.G., Dyck, W.J., Barton, P.G., Oliver, G.R. and Nicholson, G.
Effect of irrigation with sewage effluent on decomposition of litter in *Pinus radiata* forests 205
Barton, P.G., *see* Baker, T.G. et al.
Bormann, F.H., *see* Lugo, A.E. et al.
Burkhardt, E.C., *see* Oliver, C.D. et al.
Chafe, S.C.
Book review of *Wood-Water Relations*, by C. Skaar 121
Clatterbuck, W.K., *see* Oliver, C.D. et al.
D'Anieri, P. and Zedaker, S.M.
Variation in glyphosate efficacy in commercial loblolly-pine release operations in Virginia 233
Dashek, W.V., *see* Mayfield, J.E. et al.
Dighton, J. and Harrison, A.F.
Changes in phosphate status of Sitka-spruce plantations of increasing age, as determined by root bioassay 35
Dyck, W.J., *see* Baker, T.G. et al.
Edwards, M.B., *see* Mayfield, J.E. et al.
El-Kassaby, Y.A. and Reynolds, S.
Reproductive phenology, parental balance, and supplemental mass pollination in a Sitka-spruce seed-rchard 45
Felker, P., Meyer, J.M. and Gronski, S.J.
Application of self-thinning in mesquite (*Prosopis glandulosa* var. *glandulosa*) to range management and lumber production 225
Fry, G., *see* Warner, W.S. and Fry, G.
Greene, S.E., *see* Harmon, M.E. et al.
Gronski, S.J., *see* Felker, P. et al.
Gutterman, Y., *see* Herwitz, S.R. and Gutterman, Y.
Hall, J.B.
Book review of *Agroforestry Systems in the Tropics*, by P.K.R. Nair (Editor) 269
Harmon, M.E., Baker, G.A., Spycher, G. and Greene, S.E.
Leaf-litter decomposition in the *Picea/Tsuga* forests of Olympic National Park, Washington, U.S.A. 55
Harrison, A.F., *see* Dighton, J. and Harrison, A.F.
Helbert, S.
Behaviour of four soil-active herbicides in a boreal podsol 125
Herwitz, S.R. and Gutterman, Y.
Biomass production and transpiration effeciencies of eucalypts in the Negev Desert 81
Hsiung, W.-Y.
Book review of *The Black Locust*, by B. Keresztezi (Editor) 190
Huntington, T.G. and Ryan, D.F.
Whole-tree-harvesting effects on soil nitrogen and carbon 193

Kubiske, M.E., *see* Abrams, M.D. and Kubiske, M.E.
Longman, K.A.
Book review of *The Reference Manual of Woody Plant Propagation from Seed to Tissue Culture*, by M.A. Dirr and C.W. Heuser, Jr. 187
Lugo, A.E., Wang, D. and Bormann, F.H.
A comparative analysis of biomass production in five tropical tree species 153
Malende, Y.H. and Temu, A.B.
Site-index curves and volume growth of teak (*Tectona grandis*) at Mtibwa, Tanzania 91
Mayfield, J.E., Edwards, M.B. and Dashek, W.V.
Relationship of macrofungal population to silvicultural treatments in a recently harvested pine forest 109
Meyer, J.M., *see* Felker, P. et al.
Nahuz, M.A.R.
Book review of *The Forest for the Trees? Government Policies and the Misuse of Forest Resources*, by R. Repetto 271
Nicholson, G., *see* Baker, T.G. et al.
Oliver, C.D., Clatterbuck, W.K. and Burkhardt, E.C.
Spacing and stratification patterns of cherrybark oak and American sycamore in mixed, even-aged stands in the southeastern United States 67
Oliver, G.R., *see* Baker, T.G. et al.
Reynolds, S., *see* El-Kassaby, Y.A. and Reynolds, S.
Roberts, B.R.
Physiological response of yellow-poplar seedlings to simulated acid rain, ozone fumigation, and drought 215
Ryan, D.F., *see* Huntington, T.G. and Ryan, D.F.
Spycher, G., *see* Harmon, M.E. et al.
Sweet, G.B.
Book review of *Tree Maintenance*, by P.P. Pirone et al. 123
Temu, A.B., *see* Malende, Y.H. and Temu, A.B.
Thomas, B.R.
Book review of *Innocents Abroad in the Forests of Nepal: An Account of Australian Aid to Nepalese Forestry*, by D.M. Griffin 189
Thomson, A.J. and Alfaro, R.I.
A method to calculate yield-correction factors for the overstory component of budworm-attacked Douglas fir 255
Wang, D., *see* Lugo, A.E. et al.
Warner, W.S. and Fry, G.
Evaluating small-format photogrammetry for forest and wildlife surveys: Euclidean vs. fractal geometry 101
Weber, M.G.
Forest soil respiration after cutting and burning in immature aspen ecosystems 1
Response of immature aspen ecosystems to cutting and burning in relation to vernal leaf-flush 15
Zadnik Stirn, L.
Adaptive dynamic model for optimal forest management 167
Zedaker, S.M., *see* D'Anieri, P. and Zedaker, S.M.

Forest Ecology and Management, 31 (1990)
Elsevier Science Publishers B.V., Amsterdam — Printed in The Netherlands

Subject Index

Acid deposition, *see* Pollution
Agroforestry
Innocents Abroad in the Forest of Nepal: An Account of Australian Aid to Nepalese Forestry (book review) 189
Agroforestry Systems in the Tropics (book review) 269
Analytical techniques
Phosphate status of Sitka-spruce as determined by root bioassay 35
Small-format photogrammetry for forest surveys: Euclidean vs. fractal geometry 101
Aspen, *see Populus*
Bioassay, *see* Analytical techniques
Budworm, *see* Pests, weeds and diseases
Burning, *see* Management practices, effects of
Carbon, *see* Nutrient dynamics
Cutting, *see* Management practices, effects of
Decomposition, *see* Litter dynamics
Development, forestry
Innocents Abroad in the Forest of Nepal: An Account of Australian Aid to Nepalese Forestry (Book review) 190
Douglas fir, *see Pseudotsuga*
Drought, *see* Water regime
Effluent, irrigation with, *see* Nutrient dynamics
Eucalyptus
Production and transpiration efficiencies of eucalypts 81
Forest-floor dynamics
Relationship of macrofungi to silvicultural treatments 109
Forestry, general, *see* Management policy
Fungi, *see* Forest-floor dymanics
Glyphosate
Glyphosate efficacy in loblolly pine 233
Harvesting, *see* Management practices, effects of
Hemlock, *see Tsuga*
Herbicides, *see* Pests, weeds and diseases
Irrigation, *see* Water dynamics
Leaf-flush
Response of aspen to cutting and burning in relation to leaf-flush 15
Leaf structure, *see* Structure and function, organism
Light regime
Leaf structural characteristics of hardwood and conifer species: influence of light regime 245
Liriodendron
Response of yellow poplar to simulated acid rain, ozone, and drought 215
Litter dynamics
Litter decomposition in *Picea/Tsuga* forests 55
Effect of irrigation with effluent on litter in *Pinus* 205
Locust, *see Robinia*
Management policy
The Forest for the Trees? Government Policies and the Misuse of Forest Resources (book review) 271

Management practices, effect of
Soil respiration after cutting and burning in immature aspen 1
Response of aspen to cutting and burning in relation to leaf-flush 15
Reproductive phenology, parental balance, and supplemental mass pollination in Sitka-spruce 45
Spacing and stratification patterns of oak and sycamore 67
Tree maintenance (book review) 122
Tree-harvesting effects on N and C 193
Mesquite, *see Prosopis*
Modelling
Comparative analysis of biomass production in five tropical species 153
Adaptive dynamic model for optimal management 167
Calculating yield-correction factors for budworm-attacked Douglas fir 255
Nitrogen, *see* Nutrient dynamics
Nutrient dynamics
Phosphate status of Sitka-spruce as determined by root bioassay 35
Litter decomposition in *Picea/Tsuga* forests 55
Tree-harvesting effects on soil N and C 193
Effect of irrigation with effluent on litter in Pinus 205
Oak, *see Quercus*
Ozone, *see* Pollution
Parentage, influence of
Reproductive phenology, parental balance, and supplemental mass pollination in Sitka-spruce 45
Pests, weeds and diseases
Behaviour of soil-active herbicides in a podzol 125
Calculating yield-correction factors for budworm-attacked Douglas fir 255
Phenology
Reproductive phenology, parental balance, and supplemental mass pollination in Sitka-spruce 45
Phosphrus, *see* Nutrient dynamics
Photogrammetry, *see* Analytical techniques
Picea
Litter decomposition in *Picea/Tsuga* forests 55
Pine, *see Pinus*
Pinus
Relationship of macrofungi to silvicultural treatments 109
Effect of irrigation with effluent on litter 205
Glyphosate efficacy in loblolly pine 233
Platanus
Spacing and stratification patterns of oak and sycamore 67
Pollination (SMP), *see* Management practices, effects of
Pollution
Response of yellow poplar to simulated acid rain, ozone, and drought 215
Poplar, *see Populus*
see also Liriodendron
Populus
Soil respiration after cutting and burning in immature aspen 1
Response of aspen to cutting and burning in relation to leaf-flush 15
Propagation, *see* Seeds and seedling dynamics
Prosopis
Self-thinning: application to range management and production 225

Pseudotsuga
Calculating yield-correction factors for budworm-attacked Douglas fir 255
Quercus
Spacing and stratification patterns of oak and sycamore 67
Robinia
The Black Locust (book review) 191
Root dynamics
Phosphate status of Sitka-spruce as determined by root bioassay 35
Seeds and seedling dynamics
The Reference Manual of Woody Plant Propagation from Seed to Tissue Culture (book review) 189
Self-thinning
in *Prosopis*: application to range management and production 225
Shade, *see* Light regime
Site-index
Site-index curves and growth of *Tectona* 91
Soil characteristics
Soil respiration after cutting and burning in immature aspen 1
Soil dynamics
Behaviour of soil-active herbicides in a podzol 125
Spacing, *see* Management practices, effects of
Spruce, *see Picea*
Stratification, *see* Structure and function, ecosystem
Structure and function, ecosystem
Spacing and stratification patterns of oak and sycamore 67
Structure and function, organism
Leaf structural characteristics of hardwood and conifer species: influence of light regime 245
Sycamore, *see Platanus*
Teak, *see Tectona*
Tectona
Site-index curves and growth 91
Transpiration, *see* Water regime, effects of
Tsuga
Litter decomposition in *Picea/Tsuga* forest 55
Variety trials
Reproductive phenology, parental balance, and supplemental mass pollination in Sitka-spruce 45
Production and stranspiration efficiencies of eucalypts 81
Water regime, effect of
Production and transpiration efficiencies of eucalypts 81
Wood-water Relations (book review) 121
Effect of irrigation with effluent on litter in *Pinus* 205
Response of yellow poplar to simulated acid rain, ozone, and drought 215
Yield prediction, *see* Modelling